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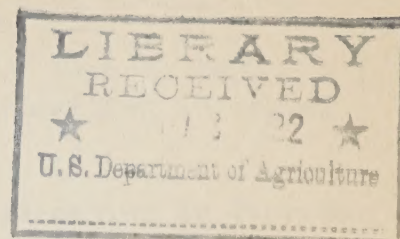




MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY  
UNITED STATES DEPARTMENT OF AGRICULTURE

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December, 1921



## ELBERT S. TUCKER

With deep regret we announce the death of Elbert S. Tucker, cotton entomologist, at Tallulah, La., December 10, 1921. While Mr. Tucker had been in poor health for some time from a combination of causes, his sudden demise was totally unexpected. By his death the Department loses one of its most faithful and devoted employees.

Mr. Tucker received his scientific training at the University of Kansas under the tutelage of V. L. Kellog, F. H. Snow, and S. J. Hunter. For different periods of time he served appointments under the University of Kansas, the Texas Agricultural Experiment Station, the Louisiana Experiment Station, and the United States Department of Agriculture. During his life he was a prolific writer upon entomological subjects. His entire writings comprise a list of one hundred and eighteen papers published in various places. He was a charter member of the Entomological Society of America, and at the time of his death held membership in the Kansas Academy of Science and the American Association of Economic Entomologists. - J.L.W.

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## TRUCK-CROP INSECT INVESTIGATIONS

F. H. Chittenden, Entomologist in Charge

C. P. Gillette, Director of the Colorado Experiment Station and a collaborator of this office, has recently furnished a map of all the known localities for the Mexican bean beetle in the State of Colorado for 1921. Forty-seven localities are shown grouped in five areas of infestation, the largest of which extends north from Denver to Fort Collins and Greeley; the second lies along the Arkansas Valley from Canon City to La Junta; and there are three areas on the western slope, consisting of a small one in the extreme southwest and two in Montrose and Delta Counties. It is somewhat remarkable that, with this exception, no information has been received as to the infestations along the Utah Border, as the general trend of drainage toward the west has probably carried numbers of beetles toward the Utah boundary. Information with regard to the Utah localities has as yet to be obtained.

N. F. Howard, specialist in charge of research work, Mexican bean beetle investigations, Birmingham, Ala., attended the meetings of the Association of Economic Entomologists at Toronto, Canada, where he







delivered a paper on the year's work against the Mexican bean beetle. On his return he visited the Japanese beetle laboratory at Riverton, N. J., for conference with Dr. William Moore as to insecticides. Several days were spent in Washington for consultation with Bureau authorities in regard to plans for the coming year.

B. L. Boyden, in charge of the sweet-potato weevil eradication in Florida, reports that to date every contractor on infested property in Baker County has been signed and it is expected that work will proceed along most satisfactory lines during the remainder of the season. About fifty per cent of the remaining infested properties have been shown as weevil-free at the final inspection for the year and substantial progress has accordingly been made. Arrangements have been completed with regard to the sweet-potato weevil quarantine in Georgia with M. V. Reed, acting entomologist of that State.

J. E. Graf, entomologist in charge of field control, Mexican bean beetle, visited Macclenny, Fla., for conference with Mr. Boyden in regard to sweet-potato weevil work for the coming year.

D. E. Fink, entomological assistant in charge of the truck-crop insect laboratory of the Bureau at Riverton, N. J., was present in Washington during the holidays for consultation in regard to his work on the strawberry leaf-roller and in regard to plans for next year.

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## LIBRARY

Mabel Colcord, Librarian

### New Books

- Armbruster, Ludwig. Zum problem der bienenzelle; eine vergleichende instinkt-biologie des nestbaues bei bienen und wespen... 141 p., illus., plates. (Bucherei fur bienenkunde Bd. IV) Leipzig, 1920.
- Bolsche, Wilhelm. Der stammbaum der insekten... 8 aufl. 92 p., illus. Stuttgart, 1917.
- Deerr, Noel. Cane sugar. 664 p., illus., 29 plates. London, Norman Rodger, 1921. The pests and diseases of the cane, p. 139-174. Bibliography, p. 591-604. Historical conspectus, p. 605-610.
- Despeissis, A. The handbook of horticulture and viticulture of Western Australia. Ed. 3. 647 p., illus. Perth, F. W. Simpson, Gov't printer, 1921. Insect and fungoid pests, etc., p. 514-632.
- Ferris, G. F. Report upon a collection of Coccidae from Lower California. p. 61-132, illus. (Stanford Univ. Biol. Sci., v. 1, no. 2) Stanford University, Calif., Published by the University, 1921.
- Forbush, E. H. The utility of birds. 83 p., illus., plates. (Mass. Dept. Agr. Dept. Bul. 9, July, 1921) Boston, Wright & Potter Printing Co., State Printers, 1921.





- Gerstung, Ferdinand. Das problem des bienenzuchtbetriebes in fruhtracht gegenden. 32 p., illus. Berlin, Fritz Pfenningstorff, 1920.
- Hewitt, C. G. The conservation of the wild life of Canada. 343 p., illus., 23 plates. N. Y., Charles Scribner's Sons, 1921.
- Kawamura, R., and Yamaguchi, M. Ueber die Tsutsugamushi-krankheit in Formosa, zugleich eine vergleichende studie derselben mit der in Nordjapan. Kitasato Archives of Experimental Medicine, v. 4, no. 3, p. 169-206, 8 plates. October, 1921. Literaturverzeichnis, p. 204-206.
- Kohl, E. J. Mallophaga of our native birds. Proc. Indiana Acad. Sci. for 1920, p. 119-133, illus. Fort Wayne, Ind., 1921. Bibliography, p. 106.
- Lee, A. B. The microtometist's vade-mecum, a handbook of the methods of microscopic anatomy... 8th ed., 594 p. Philadelphia, P. Blakiston's Son & Co., 1921.
- Lindsey, A. W. The Hesperioidea of America north of Mexico. 114 p., illus., pl. (University of Iowa Studies. Studies in natural history, v. 9, no. 4) Iowa City, Published by the University, February 15, 1921. Bibliography, p. 111-114.
- Muttkowski, R. A. Copper, its occurrence and role in insects and other animals. Trans. Amer. Micros. Soc., v. 40, no. 3, p. 144-157, 1921. Bibliography, p. 157.
- Peryassu, Antonio G. Os Anophelineos do Brazil. Archivos do Museu nacional do Rio de Janeiro, v. 23, p. (5)-101, illus., table, pl. 40. 1921.
- Swain, A. F. A synopsis of the Aphididae of California... 221 p., 17 plates. (Univ. of Calif. pubs. Tech. Bul. Col. Agr. Agr. Expt. Sta. Entomology, v. 3, no. 1) Berkeley, Univ. of Calif. Press, Nov. 1, 1919.
- Wickson, E. J. The California fruits and how to grow them. Ed. 9, greatly revised. 508 p., illus., plates. San Francisco, Pacific Rural Press, 1921. Fruit protection, p. 468-486.
- Wollman, E. Le role des mouches dans le transport des germs pathogenes etudie par la methode des elevages aseptiques. Annales de l'Institut Pasteur, v. 35, no. 7, p. 431-449, 1921.



1. The first part of the document is a letter from the President of the United States to the Congress, dated January 3, 1862. It contains a report on the state of the Union and the progress of the war against the rebellion. The President mentions the success of the Union arms and the determination to crush the rebellion.

2. The second part of the document is a report from the Secretary of the Treasury, dated January 3, 1862. It contains a report on the state of the Treasury and the progress of the war against the rebellion. The Secretary mentions the success of the Union arms and the determination to crush the rebellion.

3. The third part of the document is a report from the Secretary of the Interior, dated January 3, 1862. It contains a report on the state of the Interior and the progress of the war against the rebellion. The Secretary mentions the success of the Union arms and the determination to crush the rebellion.

4. The fourth part of the document is a report from the Secretary of the Navy, dated January 3, 1862. It contains a report on the state of the Navy and the progress of the war against the rebellion. The Secretary mentions the success of the Union arms and the determination to crush the rebellion.

5. The fifth part of the document is a report from the Secretary of the War, dated January 3, 1862. It contains a report on the state of the War and the progress of the war against the rebellion. The Secretary mentions the success of the Union arms and the determination to crush the rebellion.

6. The sixth part of the document is a report from the Secretary of the State, dated January 3, 1862. It contains a report on the state of the State and the progress of the war against the rebellion. The Secretary mentions the success of the Union arms and the determination to crush the rebellion.

7. The seventh part of the document is a report from the Secretary of the Education, dated January 3, 1862. It contains a report on the state of the Education and the progress of the war against the rebellion. The Secretary mentions the success of the Union arms and the determination to crush the rebellion.

8. The eighth part of the document is a report from the Secretary of the Agriculture, dated January 3, 1862. It contains a report on the state of the Agriculture and the progress of the war against the rebellion. The Secretary mentions the success of the Union arms and the determination to crush the rebellion.

9. The ninth part of the document is a report from the Secretary of the Commerce, dated January 3, 1862. It contains a report on the state of the Commerce and the progress of the war against the rebellion. The Secretary mentions the success of the Union arms and the determination to crush the rebellion.

10. The tenth part of the document is a report from the Secretary of the Finance, dated January 3, 1862. It contains a report on the state of the Finance and the progress of the war against the rebellion. The Secretary mentions the success of the Union arms and the determination to crush the rebellion.